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Nov 14, 1996

DERWENT-ACC-NO: 1996-518325

DERWENT-WEEK: 200029

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TITLE: Operation of coffee roaster to reduce pollutant levels in exhaust gases - by sepg. exhaust gases into recycle stream and exhaust stream that is subjected to low temp. secondary combustion

INVENTOR: ARGILES FELIP, D; FELIP, D A

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SOC PROD NESTLE SA

NEST

NESTEC SA

NEST

PRIORITY-DATA: 1995ES-0000875 (May 8, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9635335 A1</u>	November 14, 1996	E	015	A23F005/04
AU 9658150 A	November 29, 1996	N/A	000	A23F005/04
EP 862370 A1	September 9, 1998	E	000	A23F005/04
AU 695667 B	August 20, 1998	N/A	000	A23F005/04
BR 9608261 A	February 2, 1999	N/A	000	A23F005/04
JP 11504518 W	April 27, 1999	N/A	012	A23F005/04
EP 862370 B1	August 4, 1999	E	000	A23F005/04
US 5928697 A	July 27, 1999	N/A	000	A23B004/00
DE 69603620 E	September 9, 1999	N/A	000	A23F005/04
MX 9708517 A1	February 1, 1998	N/A	000	A23F005/04
ES 2136417 T3	November 16, 1999	N/A	000	A23F005/04
KR 99008373 A	January 25, 1999	N/A	000	A23F005/04

DESIGNATED-STATES: AU BR CA CN FI HU JP KR MX NO NZ PL RU SG TR
US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE AT BE CH DE
DK ES FI FR GB GR IE IT LI LU NL PT SE AT BE CH DE DK ES FI FR GB
GR IE IT LI LU NL PT SE

CITED-DOCUMENTS:1.Jnl.Ref; DE 2207803 ; DE 2354780 ; EP 98387 ;
FR 2150825 ; JP 1141550 ; US 3841826

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9635335A1	May 8, 1996	1996WO-EP01903	N/A
AU 9658150A	May 8, 1996	1996AU-0058150	N/A
AU 9658150A		WO 9635335	Based on
EP 862370A1	May 8, 1996	1996EP-0919698	N/A
EP 862370A1	May 8, 1996	1996WO-EP01903	N/A
EP 862370A1		WO 9635335	Based on
AU 695667B	May 8, 1996	1996AU-0058150	N/A
AU 695667B		AU 9658150	Previous Publ.
AU 695667B		WO 9635335	Based on
BR 9608261A	May 8, 1996	1996BR-0008261	N/A
BR 9608261A	May 8, 1996	1996WO-EP01903	N/A
BR 9608261A		WO 9635335	Based on
JP 11504518W	May 8, 1996	1996JP-0533739	N/A
JP 11504518W	May 8, 1996	1996WO-EP01903	N/A
JP 11504518W		WO 9635335	Based on
EP 862370B1	May 8, 1996	1996EP-0919698	N/A
EP 862370B1	May 8, 1996	1996WO-EP01903	N/A
EP 862370B1		WO 9635335	Based on
US 5928697A	May 8, 1996	1996WO-EP01903	N/A
US 5928697A	February 21, 1998	1998US-0945844	N/A
US 5928697A		WO 9635335	Based on
DE 69603620E	May 8, 1996	1996DE-0603620	N/A
DE 69603620E	May 8, 1996	1996EP-0919698	N/A
DE 69603620E	May 8, 1996	1996WO-EP01903	N/A
DE 69603620E		EP 862370	Based on
DE 69603620E		WO 9635335	Based on
MX 9708517A1	November 5, 1997	1997MX-0008517	N/A
ES 2136417T3	May 8, 1996	1996EP-0919698	N/A
ES 2136417T3		EP 862370	Based on
KR 99008373A	May 8, 1996	1996WO-EP01903	N/A
KR 99008373A	November 6, 1997	1997KR-0707900	N/A
KR 99008373A		WO 9635335	Based on

INT-CL (IPC): A23B 4/00; A23F 5/04; A23N 12/08

ABSTRACTED-PUB-NO: EP 862370B
BASIC-ABSTRACT:

Operation of a coffee roaster to obtain reduced levels of pollutants in exhaust gases vented from the coffee roaster comprises: (a) combusting gases in in a combustion chamber (2) and directing all combusted gases (6) into the roasting chamber (8) to roast beans; (b) extracting exhaust gases (10) from roasting chamber (8) and sepg. into a recycle stream (22) comprising exhaust gases to be returned to combustion chamber (2) and an exhaust stream (30); and (c) subjecting the exhaust stream

(30) to secondary combustion before venting to the atmos.. Also claimed is a coffee roasting system.

USE - The process is used when operating a coffee roaster to reduce pollutant levels in the exhaust gases ultimately discharged into the atmos..

ADVANTAGE - Levels of pollutants in exhaust gases are significantly reduced. Temp. at which sec. combustion takes place is lower than that required in prior art. Incorporation of catalytic treatment is greatly facilitated. The exhaust gases are substantially transparent and have low levels of CO and NOx.
ABSTRACTED-PUB-NO:

US 5928697A

EQUIVALENT-ABSTRACTS:

Operation of a coffee roaster to obtain reduced levels of pollutants in exhaust gases vented from the coffee roaster comprises: (a) combusting gases in in a combustion chamber (2) and directing all combusted gases (6) into the roasting chamber (8) to roast beans; (b) extracting exhaust gases (10) from roasting chamber (8) and sepg. into a recycle stream (22) comprising exhaust gases to be returned to combustion chamber (2) and an exhaust stream (30); and (c) subjecting the exhaust stream (30) to secondary combustion before venting to the atmos.. Also claimed is a coffee roasting system.

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ADVANTAGE - Levels of pollutants in exhaust gases are significantly reduced. Temp. at which sec. combustion takes place is lower than that required in prior art. Incorporation of catalytic treatment is greatly facilitated. The exhaust gases are substantially transparent and have low levels of CO and NOx.

Operation of a coffee roaster to obtain reduced levels of pollutants in exhaust gases vented from the coffee roaster comprises: (a) combusting gases in in a combustion chamber (2) and directing all combusted gases (6) into the roasting chamber (8) to roast beans; (b) extracting exhaust gases (10) from roasting chamber (8) and sepg. into a recycle stream (22) comprising exhaust gases to be returned to combustion chamber (2) and an exhaust stream (30); and (c) subjecting the exhaust stream (30) to secondary combustion before venting to the atmos.. Also claimed is a coffee roasting system.

USE - The process is used when operating a coffee roaster to reduce pollutant levels in the exhaust gases ultimately discharged into the atmos..

ADVANTAGE - Levels of pollutants in exhaust gases are significantly reduced. Temp. at which sec. combustion takes place is lower than that required in prior art. Incorporation of catalytic treatment is greatly facilitated. The exhaust gases are

substantially transparent and have low levels of CO and NOx.

WO 9635335A

CHOSEN-DRAWING: Dwg.1/1

TITLE-TERMS: OPERATE COFFEE ROAST REDUCE POLLUTION LEVEL EXHAUST
GAS SEPARATE EXHAUST GAS RECYCLE STREAM EXHAUST STREAM SUBJECT
LOW TEMPERATURE SECONDARY COMBUST

DERWENT-CLASS: D13

CPI-CODES: D03-D01D;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-162703